



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <b>(51) International Patent Classification <sup>6</sup> :</b><br><b>A01H 5/00, 5/10, A01N 37/18, C07K 4/10, 7/08, 14/415, C12N 15/29</b>   | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 98/27805</b><br><b>(43) International Publication Date:</b> 2 July 1998 (02.07.98)  |
| <b>(21) International Application Number:</b> PCT/AU97/00874<br><b>(22) International Filing Date:</b> 22 December 1997 (22.12.97)<br><b>(30) Priority Data:</b><br>PO 4275 20 December 1996 (20.12.96) AU<br><b>(71) Applicant (for all designated States except US):</b> COOPERATIVE RESEARCH CENTRE FOR TROPICAL PLANT PATHOLOGY [AU/AU]; The University of Queensland, John Hines Building, 5th Level, St. Lucia, QLD 4067 (AU).<br><b>(72) Inventors; and</b><br><b>(75) Inventors/Applicants (for US only):</b> MANNERS, John, Michael [AU/AU]; 28 Warmington Street, Paddington, QLD 4064 (AU). MARCUS, John, Paul [US/AU]; 1-10 Balderstone Street, Corinda, QLD 4075 (AU). GOULTER, Kenneth, Clifford [AU/AU]; 26 Emblem Street, Jamboree Heights, QLD 4074 (AU). GREEN, Jodie, Lyn [AU/AU]; 4 Reef Close, Jamboree Heights, QLD 4074 (AU). BOWER, Neil, Ivan [AU/AU]; 22 Fallbrook Street, Kenmore, QLD 4069 (AU).<br><b>(74) Agent:</b> CULLEN & CO.; Level 12, 240 Queen Street, Brisbane, QLD 4000 (AU). |           | <b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).<br><br><b>Published</b><br><i>With international search report.</i> |
| <b>(54) Title:</b> ANTIMICROBIAL PROTEINS<br><b>(57) Abstract</b><br><p>A new family of antimicrobial proteins is described. Prototype proteins can be isolated from <i>Macadamia integrifolia</i> as well as other plant species. DNA encoding the protein is also described as well as DNA constructs which can be used to express the antimicrobial protein or to introduce the antimicrobial protein into a plant. Compositions comprising the antimicrobial proteins or the antimicrobial protein <i>per se</i> can be administered to plants or mammalian animals to combat microbial infestation.</p>  |           |   |